	Application No.	Applicant(s)
	10/611,999	NAM ET AL.
Notice of Allowability	Examiner	Art Unit
	Yon Couso	2624
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>7/3/03</u> .		
2. The allowed claim(s) is/are <u>1-15</u> .		
3.	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER as reason(s) why the oath or declara t be submitted. on's Patent Drawing Review ( PTO- as Amendment / Comment or in the Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in  it of BIOLOGICAL MATERIAL in	national stage application from the complying with the requirements  I'S AMENDMENT or NOTICE OF ation is deficient.  948) attached  Office action of ags in the front (not the back) of (d).  must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/3/03  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amenda 8. ☑ Examiner's Statema	(PTO-413), te
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1. The following is an examiner's statement of reasons for allowance: prior art fails to teach or suggest a spatial image information system for efficient storage and retrieval of spatial images acquired by an image acquisition device provided with a navigation system, the system comprising; a spatial image query interface component section for performing an interface function for interfacing with an external client, and processing a spatial image database construction query, spatial image retrieval/insertion/deletion queries, and a spatial object information manipulation query in the spatial images, a spatial image meta information component section for managing schema and index information of spatial image sequences, and processing a query about index information if the query about the index information is inputted from the spatial image query interface component section, a spatial image storage/retrieval component section for processing storage, retrieval and management of the spatial image sequences according to the query of the spatial image query interface component section, a spatial image to real coordinate conversion component section for receiving and converting the spatial image and a specified position in the image into a real-world coordinate (x,y,z) or receiving and converting the realworld coordinate (x,y,z) and the spatial image into the specified position in the spatial image according to the query of the spatial image query interface component section, and an open type spatial image database interface component section for storing and managing the spatial images by interfacing the spatial image meta information component section, the spatial image storage/retrieval component section and the spatial image to real coordinate

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conversion component section with a storage system irrespective of a kind of the storage system.

Prior art also fails to teach or suggest a method for retrieving spatial images including a designated area in a spatial image information system for storing the spatial images acquired by an image acquisition device provided with a navigation system using a database structure composed of spatial image sequence tables for storing the spatial images and information, spatial image object tables for storing information on spatial objects existing in spatial image sequences, a spatial image sequence information table including schema information and indexes of the spatial image sequences and summary information, and a spatial image sequence index table for managing indexes so as to promptly retrieve the spatial image sequence tables, the method comprising; a spatial image sequence filtering step of retrieving the spatial image sequences including the designated area using the spatial image sequence indexes of the spatial image sequence index table, a spatial image filtering step of retrieving the spatial images including the designated area with respect to the spatial image sequences retrieved at the spatial image sequence filtering step, and a spatial image refining step of checking whether a real spatial image includes the designated area by loading the spatial images, which are retrieved at the spatial image filtering step, from the spatial image sequence tables.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

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preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 2. Claims 1-15 are allowed.
- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gagvani et al is cited because the reference teaches displaying geospatial images using geo-registration system.

Kumar is cited because the reference teaches a method and an apparatus for performing geo-spatial registration of imagery.

Hsu et al is cited because the reference teaches a method and an apparatus for performing geo-spatial registration of imagery.

Kuo teaches method and apparatus for acquiring digital maps.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (571) 272-7448. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis, can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public Application/Control Number: 10/611,999

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YON J. COUSO PRIMARY EXAMINER

YJC

March 21, 2007